### PATENT COOPERATION TREATM

INTERNATIONAL SEARCHING AUTHORITY

REC'D 0	3 JUN 2005
WIPO	PCT
PCI	

To:

see form PCT/ISA/220

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)

Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference see form PCT/ISA/220

FOR FURTHER ACTION See paragraph 2 below

International application No. PCT/IB2005/050289

International filing date (day/month/year) 25.01.2005

Priority date (day/month/year) 30.01.2004

International Patent Classification (IPC) or both national classification and IPC G02B3/14, G02B26/02

Applicant

KONINKLIJKE PHILIPS ELECTRONICS N.V. et al.

1	This opinion	contains	indications	relating:	to the	following	items
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Box No. 1 Basis of the opinion

☑ Box No. II Priority

☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Box No. IV Lack of unity of invention

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial

applicability; citations and explanations supporting such statement

Box No. VI Certain documents cited

Certain defects in the international application ☐ Box No. VII

☐ Box No. VIII Certain observations on the international application

#### **FURTHER ACTION** 2.

If a demand for International preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1b/s(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:

Authorized Officer

THEOPISTOU, P

European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465

Telephone No. +49 89 2399-2471

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2005/050289

	Box N	o. I	Basis of the opinion
١.	With re	egard iguag	to the language, this opinion has been established on the basis of the International application in the in which it was filed, unless otherwise indicated under this item.
	la	ngua	pinion has been established on the basis of a translation from the original language into the following ge , which is the language of a translation furnished for the purposes of international search Rules 12.3 and 23.1(b)).
2.	With renees	egard sary 1	I to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application and to the claimed invention, this opinion has been established on the basis of:
	a. type	e of m	naterial:
		a se	equence listing
		tabl	le(s) related to the sequence listing
	b. forr	nat of	f material:
		in v	vritten format
		in c	computer readable form
	c. time	e of fi	iling/furnishing:
	. 🗆	cor	ntained in the international application as filed.
		file	d together with the international application in computer readable form.
		furi	nished subsequently to this Authority for the purposes of search.
3.	h	as be	lition, in the case that more than one version or copy of a sequence listing and/or table relating thereto een filed or furnished, the required statements that the information in the subsequent or additional is is identical to that in the application as filed or does not go beyond the application as filed, as priate, were furnished.
4	. Addit	ioṅal	comments:
_	Box	No. II	Priority
1	Ç	does i	alidity of the priority claim has not been considered because the International Searching Authority not have in its possession a copy of the earlier application whose priority has been claimed or, where ed, a translation of that earlier application. This opinion has nevertheless been established on the option that the relevant date (Rules 43 <i>bis</i> .1 and 64.1) is the claimed priority date.
2	r	nas bi	ppinion has been established as if no priority had been claimed due to the fact that the priority claim een found invalid (Rules 43 <i>bis.</i> 1 and 64.1). Thus for the purposes of this opinion, the international date indicated above is considered to be the relevant date.
3	. Addit	ional	observations, if necessary:

Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

2,3,5,6

No: Claims

1,4,7,8,9

Inventive step (IS)

Yes: Claims

No: Claims

1-9

Industrial applicability (IA)

Yes: Claims

. 1-9

No: Claims

2. Citations and explanations

see separate sheet

#### Box No. VI Certain documents cited

Certain published documents (Rules 43bis.1 and 70.10)
 and / or

2. Non-written disclosures (Rules 43bis.1 and 70.9)

see form 210

#### Re Item V.

1 Reference is made to the following documents:

D1: WO 03/069380 A (KONINKLIJKE PHILIPS ELECTRONICS N.V; FEENSTRA, BOKKE, J; KUIPER, STEIN) 21 August 2003 (2003-08-21)

D2: US 2001/017985 A1 (TSUBOI TAKAYUKI ET AL) 30 August 2001 (2001-08-30)

D3: US-A-2 300 251 (FLINT EDWARD F) 27 October 1942 (1942-10-27)

#### 2 INDEPENDENT CLAIM 1

2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.
Document D1 discloses (cf. Fig. 4) (the references in parentheses applying to this document):

An optical lens system comprising a first lens group (104), a second lens group (106) and a stop (116, 118), at least one of said lens groups comprising an optical element having

- a chamber (105) having an entrance window, an exit window and an optical axis extending longitudinally through the chamber,
- the chamber comprising a first fluid (A) and a second fluid (B) in contact over a meniscus (114) extending transverse the optical axis, the fluids being substantially immiscible,
- at least one of the entrance window or exit window comprising a surface being in contact with one of the first or the second fluid, said surface having a curvature (cf. Fig. 4).

## 3 DEPENDENT CLAIMS 2-9

Dependent claims 2-9 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step (Article 33(2) and (3) PCT).

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/IB2005/050289

The reasons are as follows:

- Claims 2,3: As indicated by D1 (pg. 7, ln. 19-23) and D2 (cf. par. [0056]-[0053]) the curvature of the meniscus is selected according to design options.
- Claim 4: The materials used in documents D1 and D2 fulfill the different Abbe numbers of claim 4. In the same context of variable focus lenses comprising fluids, D3 also (cf. pg. 4, left column, lines 21-43) indicates selection of the materials to minimise chromatic aberrations, which is the same problem as mentioned in the current application (cf. originally filed description pg. 8, ln. 10-14).
- Claims 5,6,7: A stop is typically placed where there is a need for it (cf. D1; Fig. 4).
- Claims 8,9: The known prior art devices are typically used in displays, cameras and other mobile devices.

# PCT REQUEST

# Print Out (Original in Electronic Form)

	Declaration: Entitlement to apply for and be granted a patent Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate:	in relation to this international application
		KONINKLIJKE PHILIPS ELECTRONICS N.V. is entitled to apply for and be granted a patent by virtue of the following:
VIII-2-1(i i)		KONINKLIJKE PHILIPS ELECTRONICS N.V. is entitled as employer of the inventor, HENDRIKS, Bernardus, H., W.
VIII-2-1(i i)	*	KONINKLIJKE PHILIPS ELECTRONICS N.V. is entitled as employer of the inventor, KUIPER, Stein
	This declaration is made for the purposes of:	all designations except the designation of the United States of America

### PATENT COOPERATION TREATM

From the INTERNATIONAL SEARCHING AUTHORITY

REC'D	0.9	JUN	2005
WIPO			PCT
PC	T		

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G02B3/14, G02B26/02

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Box No. I

Basis of the opinion

☑ Box No. II

Priority

☐ Box No. III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

☐ Box No. IV

Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

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	a. ty	pe of n	naterial:
		] as	equence listing
		] tab	le(s) related to the sequence listing
	b. fo	rmat o	f material:
		] in v	vritten format
		] in c	computer readable form
•	c. tir	ne of fi	iling/furnishing:
		o cor	ntained in the international application as filed.
		] file	d together with the international application in computer readable form.
	. [	3 fur	nished subsequently to this Authority for the purposes of search.
3.		has be copies	lition, in the case that more than one version or copy of a sequence listing and/or table relating thereto sen filed or furnished, the required statements that the information in the subsequent or additional is is identical to that in the application as filed or does not go beyond the application as filed, as priate, were furnished.
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